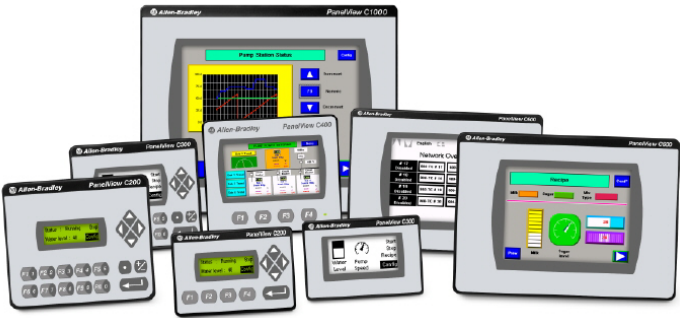


PanelView Component Specifications

Catalog Numbers 2711C-F2M, 2711C-K2M, 2711C-T3M, 2711C-K3M, 2711C-T4T, 2711C-T6M, 2711C-T6T, 2711C-T10C



| Topic | Page |
|------------------------------|------|
| Environmental Specifications | 2 |
| General Specifications | 3 |
| Certifications | 3 |
| Technical Specifications | 4 |
| Dimensions | 6 |
| Accessories | 8 |
| Software | 9 |
| Cables | 10 |
| Additional Resources | 11 |

PanelView Component Family

This component-level operator interface provides a control and visualization solution for low-level applications using serial or Ethernet communication. This device can connect directly to the PowerFlex® 4 drives. Preferred controllers include the Allen-Bradley® Micrologix™ and Micro800™ families.

The integrated mounting clamps and quick lever clips provide for panel installation and maintenance.

These 2-inch to 10-inch displays have built-in programming software that is accessed from a web browser over a USB or Ethernet connection. This means you can design your application and adjust terminal settings while viewing the results directly on the connected terminal. Secured programming access, unicode language switching, alarm messages and history, and recipe operations are other key features.



Environmental Specifications

Table 1 - Environmental Specifications - PanelView Component Terminals

| Attribute | 2711C-F2M, 2711C-K2M, 2711C-T3M, 2711C-K3M, 2711C-T4T, 2711C-T6M, 2711C-T6T, 2711C-T10C |
|-------------------------------|--|
| Temperature, operating | IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): 0...50 °C (32...122 °F) |
| Temperature, nonoperating | IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): -25...70 °C (-13...158 °F) |
| Temperature, surrounding, max | 50 °C (122 °F) |
| Heat Dissipation | C200/C300: 16 BTU/hr C400: 24 BTU/hr C600: 32 BTU/hr C1000: 58 BTU/hr |
| Relative humidity | IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing |
| Vibration | IEC 60068-2-6 (Test Fc, Operating): 2 g @ 10...500 Hz |
| Shock, operating | IEC 60068-2-27 (Test Ea, Unpackaged Shock): 15 g @ 11 ms |
| Shock, nonoperating | IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g |
| Emissions | CISPR 11: Group 1, Class A |
| ESD immunity | IEC 61000-4-2: 4 kV contact discharges 8 kV air discharges |
| Radiated RF immunity | IEC 61000-4-3: 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 3V/m with 1 kHz sine-wave 80% AM from 1400...2000 MHz 1V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz |
| EFT/B immunity | IEC 61000-4-4: ±2 kV @ 5 kHz on power ports ±1 kV @ 5 kHz on communication ports |
| Surge Transient immunity | IEC 61000-4-5: ±500V line-line (DM) and ±1 kV line-earth (CM) on DC power ports ±1 kV line-earth (CM) on communication ports |
| Conducted RF immunity | IEC 61000-4-6: 10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz |

General Specifications

Table 2 - General Specifications

| Attribute | 2711C-F2M, 2711C-K2M, 2711C-T3M, 2711C-K3M, 2711C-T4T, 2711C-T6M, 2711C-T6T, 2711C-T10C |
|--------------------------------|---|
| Isolation voltage | For 2711C-T4T only 30V (continuous), Basic Insulation Type Tested @ 500V for 60 s, line to Ethernet No isolation between all ports to line, except Ethernet port Duration indicates that the product was qualification or type tested to the specified level (one time tested on a representative sample) |
| Wire size | Single-Wire Gauge: 0.33...2.08 mm ² (22...14 AWG) Dual-wire Gauge: 0.33...1.31 mm ² (22...16 AWG) Earth wire: 2.08...3.31 mm ² (14...12 AWG) |
| Wire type | Solid or stranded copper wire rated @ 90 °C (194 °F), or greater |
| Wiring category ⁽¹⁾ | 1 – on power ports 1 – on communication ports |
| Enclosure type ratings | Meets NEMA/UL Type 4X (indoor) 12, 13, and IEC IP54, IP65 (when marked) C600 Series B only: NEMA/UL Type 12, 13, and IEC IP54 |
| North American Temp Code | T3C – for 2711C-T4T only |

(1) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Certifications

Table 3 - Certifications - PanelView Component Terminals

| Certification ⁽¹⁾ | 2711C-F2M, 2711C-K2M, 2711C-T3M, 2711C-K3M, 2711C-T4T, 2711C-T6M, 2711C-T6T, 2711C-T10C |
|------------------------------|---|
| c-UL-us | <ul style="list-style-type: none"> UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E113724. UL Listed for Class 1, Division 2, Group A, B, C, D, Hazardous Locations, certified for U.S. and Canada. See UL File E10314. |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions |
| C-Tick | Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions |
| KCC | Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3 |

(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

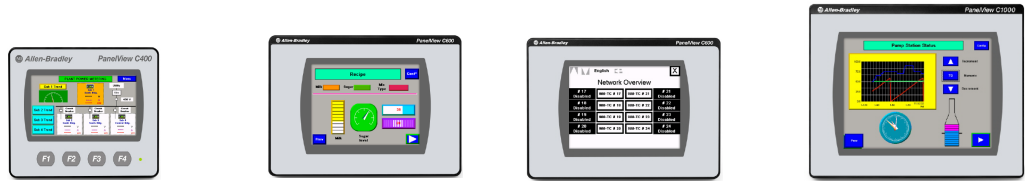
Technical Specifications

The tables in this section provide technical specifications for the PanelView™ Component terminals.



Table 4 - Technical Specifications - PanelView Component C200 and C300 Terminals

| Attribute | C200 2711C-F2M | C200 2711C-K2M | C300 2711C-T3M | C300 2711C-K3M |
|-----------------------------------|--|---|---|---|
| Display type | Monochrome transfective STN passive matrix | | Monochrome transfective FSTN passive matrix | |
| Display size | 2 in. | | 3 in. | |
| Display area (WxH) | 49 x 14 mm (1.93 x 0.55 in.) | | 67 x 33 mm (2.64 x 1.30 in.) | |
| Resolution | 122 x 32 | | 128 x 64 | |
| Backlight | 50,000 hours life, min; not replaceable | | 50,000 hours life, min; not replaceable | |
| | Yellow/Green LED indicator | | White LED indicator | |
| Operator input | 4 function keys (F1...F4) Up, down, left, right, Enter keys | 10 function keys (F1...F10) Numeric keypad 0...9 Up, down, left, right, decimal, +/-, Enter keys | Analog touch | 10 function keys (F1...F10) Numeric keypad 0...9 Up, down, left, right, decimal, +/-, Enter keys |
| Real-time clock | No battery backup | | | |
| Battery | 5 year min at 25 °C (77 °F) | | | |
| Programming port | USB device port | | | |
| Communication ports | RS-232 (DH-485), RS-232 (DF1), RS485 Multi-vendor communication available for Modbus, Modbus/TCP, Siemens MPI devices | | | |
| Memory card | USB flash drive | | | |
| Software | DesignStation software, version 2.0 or later Web-enabled software resident in terminal accessed through web browser Browser support: Firefox 3.0, Internet Explorer 7 or 8 Emulator available | | | |
| Preferred controller | MicroLogix, SLC, and Micro800 controllers | | | |
| Input voltage, DC | 18...30V DC (24V DC nom) | | | |
| Power consumption, DC | 5 W max (0.21 A at 24V DC) | | | |
| Weight, approx | 0.19 g (0.40 lb) | 0.30 kg (0.65 lb) | 0.20 kg (0.43 lb) | 0.30 kg (0.65 lb) |
| Dimensions (HxWxD), approx | 80 x 116 x 54 mm 3.15 x 4.54 x 2.13 in. | 119 x 139 x 55 mm 4.69 x 5.47 x 2.15 in. | 80 x 116 x 57 mm 3.15 x 4.54 x 2.23 in. | 119 x 139 x 55 mm 4.69 x 5.47 x 2.15 in. |
| Cutout dimensions (HxWxD), approx | 65 x 100 mm 2.56 x 3.94 in. | 100 x 120 mm 3.94 x 4.72 in. | 65 x 100 mm 2.56 x 3.94 in. | 100 x 120 mm 3.94 x 4.72 in. |

**Table 5 - Technical Specifications - PanelView Component C400, C600, and C1000 Terminals**

| Attribute | C400 2711C-T4T | C600 2711C-T6T | C600 2711C-T6M | C1000 2711C-T10C |
|-----------------------------------|--|--|---|--|
| Display type | Color transmissive TFT active matrix LCD | Color transmissive TFT active matrix LCD | Monochrome transmissive FSTN passive matrix | Color transmissive TFT active matrix LCD |
| Display size | 4.3 in. | 5.7 in. | | 10.4 in. |
| Display area (WxH) | 95 x 53.86 mm (3.74 x 2.12 in.) | 115 x 86 mm (4.53 x 3.39 in.) | | 211 x 158 mm (8.31 x 6.22 in.) |
| Resolution | 480 x 272 | 320 x 240 | | 640 x 480 |
| Backlight | 40,000 hours life, min; not replaceable | | 50,000 hours life, min; not replaceable | |
| | White LED backlight | White LED backlight | CCFL | |
| Operator input | Analog touch Actuation rating: 1,000,000 presses | | | |
| Real-time clock | Battery backup | | | |
| Battery life | 5 year min at 25 °C (77 °F) | | | |
| Programming port | USB device port or Ethernet port | | | |
| Communication ports | RS-232 (DH-485), RS-232 (DF1), RS485, Ethernet Multi-vendor communication available for Modbus, Modbus/TCP, Siemens MPI devices | | | |
| Memory card | USB flash drive | USB flash drive Secure Digital (SD) card: Cat. no. 2711C-RCSD, USB to SD adapter with SD card | | |
| Software | DesignStation software, version 2.0 or later Web-enabled software resident in terminal accessed through web browser Browser support: Firefox 3.0, Internet Explorer 7 or 8 Emulator available | | | |
| Preferred controller | MicroLogix, SLC™, and Micro800 controllers | | | |
| Input voltage, DC | 18...30V DC (24V DC nom) | 18...30V DC (24V DC nom) | | |
| Power consumption, DC | 3.5 W max (0.14 A at 24V DC) | 10 W max (0.42 A at 24V DC) | | 18 W max (0.75 A at 24V DC) |
| Weight, approx | 0.35 g (0.76 lb) | 0.68 g (1.48 lb) | | 1.57 kg (3.41 lb) |
| Dimensions (HxWxD), approx | 113 x 138x 43 mm 4.45 x 5.43 x 1.69 in. | 154 x 209 x 57 mm 6.0 x 8.23 x 2.25 in. | | 250 x 308 x 54 mm 9.84 x 12.13 x 2.13 in. |
| Cutout dimensions (HxWxD), approx | 99 x 119 mm 3.9 x 4.69 in. | 136 x 190 mm 5.35 x 7.48 in. | | 232 x 290 mm 9.13 x 11.42 in. |

Dimensions

Dimensions are provided for the PanelView Component terminals.

Figure 1 - PanelView Component C200 and C300 Terminals

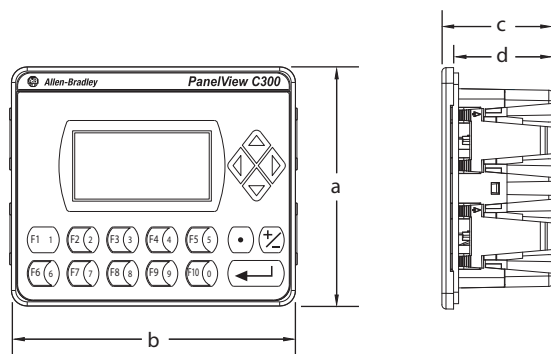


Figure 2 - PanelView Component C200 Function Key and C300 Touch Terminals

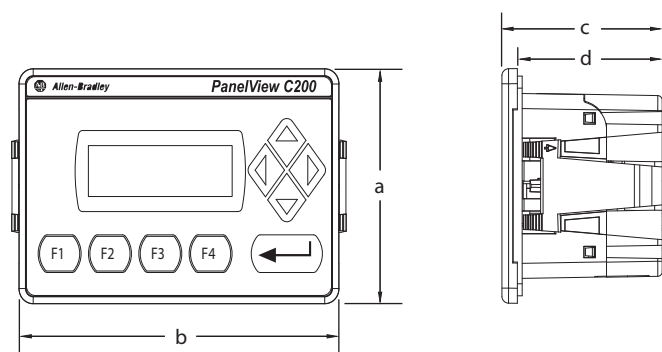


Table 6 - Dimensions - PanelView Component C200 and C300

| PanelView Component | Height, approx | Width, approx | Depth Overall, approx | Mounted Depth, approx | Cutout Height, approx | Cutout Width, approx |
|----------------------|-------------------|-------------------|-----------------------|-----------------------|--------------------------|---------------------------|
| | a | b | c | d | mm (in.) | mm (in.) |
| C200 and C300 Keypad | 119 mm (4.69 in.) | 139 mm (5.47 in.) | 55 mm (2.15 in.) | 49 mm (1.93 in.) | 99.0 ± 1.0 (3.90 ± 0.04) | 119.0 ± 1.0 (4.69 ± 0.04) |
| C200 Function Key | 80 mm (3.15 in.) | 116 mm (4.57 in.) | 54 mm (2.13 in.) | 49 mm (1.93 in.) | 64.0 ± 1.0 (2.52 ± 0.04) | 99.0 ± 1.0 (3.90 ± 0.04) |
| C300 Touch | | | 57 mm (2.23 in.) | | 64.0 ± 1.0 (2.52 ± 0.04) | 99.0 ± 1.0 (3.90 ± 0.04) |

Figure 3 - PanelView Component C400 Touch Terminal

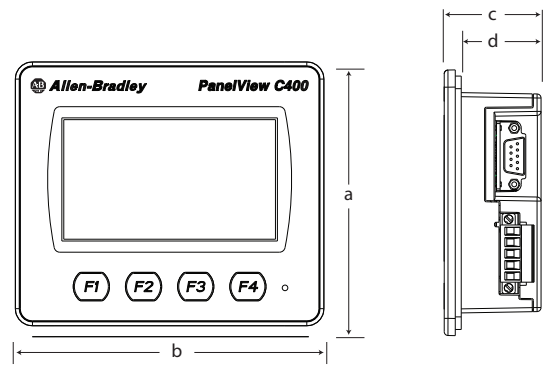


Figure 4 - PanelView Component C600 Touch Terminal

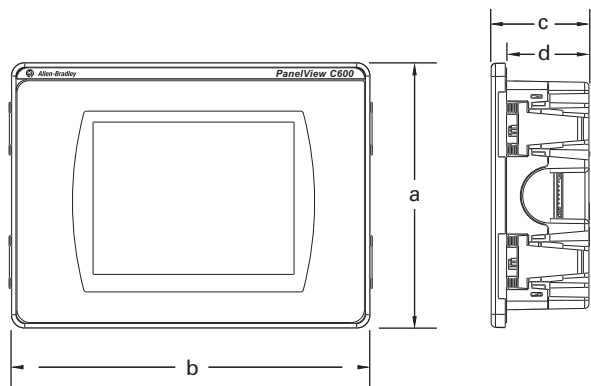


Figure 5 - PanelView Component C1000 Touch Terminal

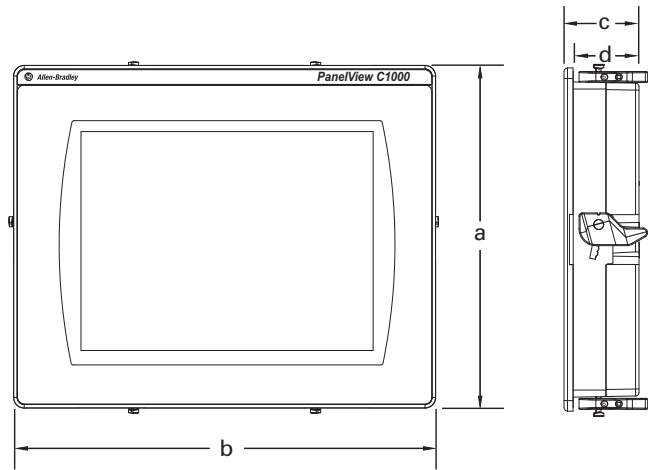


Table 7 - Dimensions - PanelView Component C400, C600, and C1000

| PanelView Component | Height, approx | Width, approx | Depth Overall, approx | Mounted Depth, approx | Cutout Height, approx | Cutout Width, approx |
|---------------------|-------------------|--------------------|-----------------------|-----------------------|---------------------------|----------------------------|
| | a | b | c | d | mm (in.) | mm (in.) |
| C400 Touch | 113 mm (4.45 in.) | 138 mm (5.43 in.) | 43 mm (1.69 in.) | 38 mm (1.49 in.) | 99.0 ± 1.0 (3.90 ± 0.04) | 119.0 ± 1.0 (4.69 ± 0.04) |
| C600 Touch | 154 mm (6.0 in.) | 209 mm (8.23 in.) | 57 mm (2.25 in.) | 49 mm (1.93 in.) | 135.0 ± 1.0 (5.31 ± 0.04) | 189.0 ± 1.0 (7.44 ± 0.04) |
| C1000 Touch | 250 mm (9.84 in.) | 308 mm (12.13 in.) | 54 mm (2.13 in.) | 49 mm (1.93 in.) | 231.0 ± 1.0 (9.09 ± 0.04) | 289.0 ± 1.0 (11.38 ± 0.04) |

Accessories

Tables 8...11 list the accessories for the PanelView Component terminals.

Table 8 - SD Card

| Cat. No. | Description |
|------------|--------------------------------|
| 2711C-RCSD | USB to SD adapter with SD card |

Table 9 - Antiglare Overlays

| Cat. No. ⁽¹⁾ | PanelView Component | Input Type | | |
|-------------------------|---------------------|--------------|----------------|-------|
| | | Function Key | Numeric Keypad | Touch |
| 2711C-RG2F | C200 | . | | |
| | C300 | | | . |
| 2711C-RG2K | C200 | | . | |
| | C300 | | . | |
| 2711C-RG6T | C600 | | | . |
| 2711C-RG10T | C1000 | | | . |

(1) Three overlays are shipped with each catalog number.

Table 10 - Power Terminal Blocks

| Cat. No. | Description | Quantity |
|-------------|-----------------------------------|----------|
| 2711C-RJ422 | RS422/485 connector with resistor | 10 |
| 2711-TBDC | DC power terminal block | 10 |

Table 11 - Power Supply

| Cat. No. | Description | Quantity |
|---------------|--|----------|
| 2711P-RSACDIN | DIN-rail mount AC-to-DC power supply, 85...265V AC, 47...63 Hz | 1 |

Software

The PanelView Component stands apart from other HMI devices with its on-terminal programming software. Eliminating the need to install software on a personal computer reduces both start-up and servicing time. Just connect your computer to the PanelView Component through a USB cable or Ethernet, then launch the software through your web browser. Both Microsoft Internet Explorer and Mozilla Firefox are supported. A dashboard provides a single point of entry for accessing all terminal and design operations.

Take advantage of these features while connected to the terminal:

- Launch the design environment where navigation tabs guide you through application development.
- View the results of your design efforts directly on the terminal without having to download the application first.
- Modify terminal display and communication settings, view system information, and enable login security.
- Transfer files between PanelView Component storage and a USB flash drive, SD card, or computer; and delete files from terminal storage.
- Change the start-up application or language the terminal uses for configuration screens and diagnostic messages.

For programming without a PanelView Component, you can create an application using the free DesignStation software or an emulator. The emulator and browser must be on the same computer.

Table 12 - Supported Browsers and Platforms

| Operating System | Browser | Platform Supported |
|------------------|--|----------------------------|
| Windows 7 | Internet Explorer 7 and 8, Firefox 3.0 | Terminal and emulator |
| Windows Vista | Internet Explorer 7 and 8 | DesignStation 2.0 or later |
| Windows XP SP2 | | |

Cables

Use these cables for connecting PanelView Component terminals.

Table 13 - Cables for PanelView Component Terminals

| Cat. No. | Description | For Use With |
|----------------|---|-------------------------------|
| 2711C-CBL-UU02 | USB-A host to USB-B device cable, 2 m (6.5 ft) | C200, C300, C400, C600, C1000 |
| 2711P-CBL-EX04 | Ethernet crossover CAT5 cable, 4.3 m (14 ft) | C400, C600, C100 |
| 2711C-RCSD | USB to SD adapter with SD card | C200, C300, C400, C600, C1000 |
| 1747-CP3 | Serial 9-pin D-shell to 9-pin D-shell null modem cable, 3 m (10 ft) | C200, C300, C400, C600, C1000 |
| 1761-CBL-PM02 | Serial 9-pin D-shell to 8-pin mini DIN cable, 2 m (6.5 ft) | C200, C300, C400, C600, C1000 |
| 2711C-CBL-AB03 | RS-485 5-pin to RJ45 cable | C200, C300, C600, C1000 |

This table provides a summary of connections to MicroLogix controllers.

Table 14 - PanelView Component Terminal Connections to MicroLogix Controllers

| Protocol | PanelView Component Port | MicroLogix (8-pin Mini DIN) 1000, 1100, 1400, 1200LSP, 1500LSP (CH0) | MicroLogix (9-pin D-shell) 1500LRP (CH1) | MicroLogix 1100/1400 RS485 (1763-NC01) | MicroLogix 1100, 1400 Ethernet |
|-------------------------------|--------------------------|--|--|--|--------------------------------------|
| DF1 | RS-232 | 1761-CBL-PM002 | 1747-CP3 | 1747-CP3 | — |
| DH-485 | RS-232 | 1761-CBL-PM002 | 1747-CP3 | 1747-CP3 | — |
| | RS-485 ⁽¹⁾ | — | — | — | — |
| Modbus | RS-232 | 1761-CBL-PM002 | 1747-CP3 | 1747-CP3 | — |
| EtherNet (MicroLogix/ENI)2 | Ethernet | — | — | — | CAT5 Ethernet |

(1) RS-485 is nonisolated and is recommended for connecting to only one device with an isolated port.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Table 15 - Additional Resources

| Resource | Description |
|---|---|
| PanelView Component Installation Instructions, publication 2711C-IN001 | Provides instructions for installing a PanelView Component terminal. |
| PanelView Component User Manual, publication 2711C-UM001 | Provides information on how to configure and operate the PanelView Component terminal, including troubleshooting information. |
| PanelView Component Quick Start, publication 2711C-QS001 | Provides instructions on setting up a sample application on a PanelView Component terminal. |
| Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1 | Provides general guidelines for installing a Rockwell Automation industrial system. |
| Product Certifications website, http://www.ab.com | Provides declarations of conformity, certificates, and other certification details. |

You can view or download publications at <http://rockwellautomation.com/literature>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation® sales representative

Important User Information

Solid-state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (publication [SGI-1.1](#) available from your local Rockwell Automation sales office or online at <http://www.rockwellautomation.com/literature/>) describes some important differences between solid-state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid-state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this publication are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

Reproduction of the contents of this manual, in whole or in part, without written permission of Rockwell Automation, Inc., is prohibited.

Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete this form, publication [RA-DU002](#), available at <http://www.rockwellautomation.com/literature/>.

Allen-Bradley, MicroLogix, SLC, PowerFlex, Micro800, PanelView, Rockwell Software, Rockwell Automation, and LISTEN. THINK. SOLVE are trademarks of Rockwell Automation, Inc.
Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846